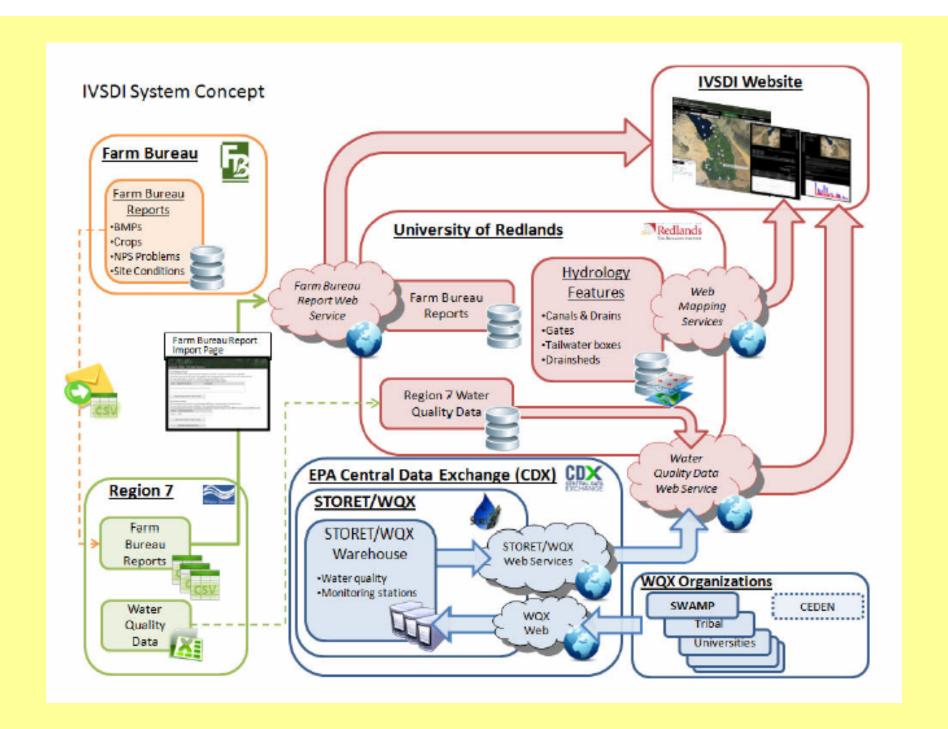
Imperial Valley Spatial Data Infrastructure Site

A partnership among Federal, State, and Local Entities, and the Redlands Institute

Database Design Objectives

- Incorporate data from various agencies (State Agencies, Federal and Local sources, including USGS NHD, EPA STORET)
- Comply with the State Water
 Resources Control Board (SWRCB)
 Surface Water Ambient
 Monitoring Program (SWAMP)
 standards
- Support analysis and reporting requirements



Database Development Process

Stakeholder Survey

Data Inventory and Assessment

Data
Compilation/
Conversion

Database
Design/
Development

Analysis and Visualization Products

Website & Web-based GIS



IVSDI Website

Technical Details:

- Application developed using ArcGIS Server.NET Web ADF 9.2
- Data stored in ArcSDE 9.2on SQL Server 2005



http://www.spatial.redlands.edu/ivsdi

Web-based GIS and reporting tools

IVSDI web map with WQ Monitoring point locations, drains, canals, gates and tailwater boxes



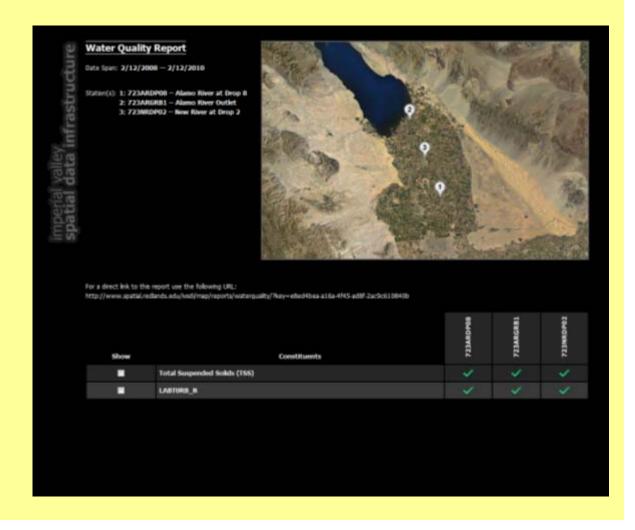
Water Quality Reports

Select one or more WQ stations and a time range and run report

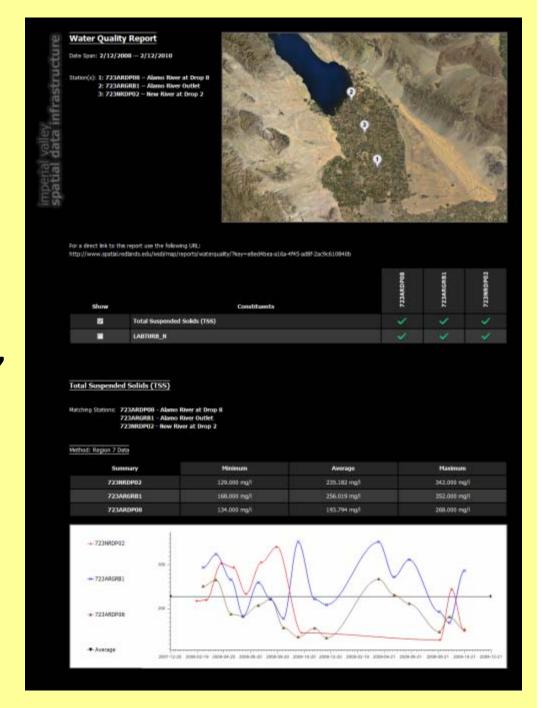


Water Quality Reports

Report shows which constituents were being sampled at the chosen Locations. The report includes an overview map, station Identification, and time frame.



Check a box next to a constituent, and a graph and summary table will appear below. Graphing TSS (Total Suspended Solids), you will see the average for the station and time period you selected, and the State target level.



Potential Statewide Water Quality Sites

Since the program can use data from national, state, regional and local data sources, you can see and report on any water quality monitoring station in the state.

Potential State Watershed site



Future Possibilities

- Develop a web based link among CEDEN and other sources of monitoring data
- Allow both a spatial and topical display of information
- Provide custom graphing and reporting capabilities to users (spatial and topical)
- Enable a central point to access WQ data, without requiring a central repository